

1, 11, 29, 32, 35, 37 and 38), which is one more independent claim that the original six independent claims for which the original filing fee was submitted to cover. Accordingly, enclosed is a captioned paper entitled "FEE TO COVER ADDITIONAL CLAIMS ADDED BY AMENDMENT", and check no. 4574 is appropriate in amount to cover the corresponding fee for the additional independent claim.

Please amend the above-captioned application as follows:

IN THE CLAIMS:

Please cancel claims 5-10, 15-18, 24-28 and 36, without prejudice.

Please amend the claims as indicated below, without prejudice:

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1. (Once Amended) A transmission device comprising:
a first rotational member configured for attachment to a means for rotating said first rotational member about a center of rotation;
a first translational member configured for transmitting force to a means for using said force;
connecting means for operatively connecting the first rotational member and the first translational member such that movement of one of said translational member and rotational member causes movement of the other of said translational member and rotational member, wherein a portion of the connecting means is pivotally connected to the first rotational member at a first radial attachment point removed from the center of rotation of said

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cont first rotational member such that said first radial attachment point and said center of rotation define a first attachment radius; and

adjusting means for varying a location of the first radial attachment point responsive to rotational speed of [with respect to] the first rotational member to thereby increase and decrease the first attachment radius.

a2 3. (Once Amended) The transmission device of claim 1, wherein the first rotational member includes a moveable portion, and wherein the [second portion of the] connecting means [arm] is pivotally connected to said moveable portion, and wherein the adjusting means further comprises means for moving said moveable portion.

a3 11. (Once Amended) A [The] transmission device comprising:
[of claim 1,]

a first rotational member configured for attachment to a means for rotating said first rotational member about a center of rotation;

a first translational member configured for transmitting force to a means for using said force;

connecting means for operatively connecting the first rotational member and the first translational member such that movement of one of said translational member and rotational member

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causes movement of the other of said translational member and rotational member, wherein a portion of the connecting means is pivotally connected to the first rotational member at a first radial attachment point removed from the center of rotation of said first rotational member such that said first radial attachment point and said center of rotation define a first attachment radius; and

adjusting means for varying a location of the first radial attachment point with respect to the first rotational member to thereby increase and decrease the first attachment radius;

wherein the first rotational member includes a movement piece having a female-threaded throughpassage formed therein, wherein the adjusting means further comprises:

mass means movably disposed on the first rotational member for moving radially outwardly and inwardly along said first rotational member;

at least one male-threaded member rotatably disposed on the first rotational member and extending through the throughpassage of the movement piece in threaded engagement therewith; and

actuating means for rotating the male-threaded member responsive to radially-directed movement of the mass means along the first rotational member to thereby cause dynamic thread-to-thread engagement of said male-threaded member with female threads of the female-threaded throughpassage sufficient to cause radially-directed movement of the movement

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piece along the first rotational member, and thus variation in the location of the first radial attachment point with respect to the first rotational member.

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(Once Amended) The transmission device of claim 1, further comprising lengthening means for varying a length of the connecting means [arm].

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(Once Amended) The transmission device of claim ⁹~~19~~:

wherein a reference member resides in a substantially fixed location with respect to a center of the first rotational force-transmitting member;

wherein the second force-transmitting member comprises a first translational member confined to a cycle of reciprocating linear movement toward and away from the reference member responsive to rotational movement of the first, rotational force-transmitting member, wherein the cycle of reciprocating linear movement is defined between a distal position and a proximal position of said first translational member;

wherein the adjusting means further comprises means for varying the length of the connecting means [arm] sufficient to maintain the distal position of the cycle of reciprocating linear movement in substantially the same location with respect to the reference member.

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11/21. (Once Amended) The transmission device of claim ¹⁰20, wherein the connecting means [arm] and the lengthening means collectively comprise a male-threaded cylindrical member threadably engaged within a female-threaded sleeve, said male-threaded cylindrical member having a longitudinal axis and being rotatable with respect to the female-threaded sleeve about said longitudinal axis.

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32. (Once Amended) A transmission device comprising:
a first, rotational, force-transmitting member configured for attachment to a means for rotating said first rotational member;
a second force-transmitting member;
a connecting arm having a first portion pivotally connected to the first, rotational force-transmitting member at a first pivot attachment point, and a second portion pivotally connected to the second force-transmitting member at a second pivot attachment point, in a manner sufficient to cause said second force-transmitting member to engage in movement responsive to movement of said first, rotational force-transmitting member at a first ratio of movement of said first, rotational force-transmitting member to said second force transmitting member; and
adjusting means for (i) varying a location of one of the pivotal attachment points responsive to rotational speed of the first, rotational, force-transmitting member to thereby increase and decrease the first ratio of movement, and (ii) varying a length

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of the connecting arm responsive to the varying of the location of said one of the pivotal attachment points.

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35. (Once Amended) A transmission device comprising:

a first rotational member configured for attachment to a means for rotating said first rotational member about a center of rotation;

a first translational member configured for transmitting force to a means for using said force;

a first connecting arm having a first portion pivotally connected to the first translational member at a first pivot point, and a second portion pivotally connected to the first rotational member at a first radial attachment point removed from the center of rotation of said first rotational member such that said first radial attachment point and said center of rotation define a first attachment radius;

adjusting means for varying a location of the first radial attachment point responsive to rotational speed of [with respect to] the first rotational member to thereby increase and decrease the first attachment radius;

wherein the adjusting means further comprises means for varying the location of the radial attachment point during rotation of the first rotational member;

wherein the first rotational member includes a perimeter defining an interior area, and wherein less than a majority of said interior area comprises an opening;

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cont wherein movement of the first rotational member and movement of the first translational member define a first ratio of movement of said first rotational member to said first translational member, and wherein the adjusting means further comprises means for varying the location of the radial attachment point without varying a location of the first pivot point relative to the first translational member to thereby change the first ratio of movement to a second ratio of movement;

wherein the adjusting means further comprises means for continuously varying the location of the first radial attachment point to thereby continuously vary a first ratio of movement of the first rotational member to the first translational member.

97 37. (Once Amended) A method for transmitting force among gear members and varying a gear ratio of movement said gear members, said method comprising the steps of:

(a) pivotally connecting a first portion of a connecting arm to a first translational member at a first pivot point, and pivotally connecting a second portion of the connecting arm to a first rotational member at a first radial attachment point removed from a center of rotation of the first rotational member such that said first radial attachment point and said center of rotation define a first attachment radius, such that dynamic force from rotational movement of the first rotational member is transmitted by the connecting arm to the first translational member; and

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(b) varying a location of the first radial attachment point responsive to rotational speed of [with respect to] the first rotational member to thereby increase and decrease the first attachment radius and change a first ratio of movement of said first rotational member to the first translational member.

Please add the following new claim:

48 38. A transmission device comprising:

a circular wheel having the shape of a circle and being configured for attachment to a means for rotating said circular wheel about a center of rotation;

a first translational member configured for transmitting force to a means for using said force;

connecting means for operatively connecting the circular wheel and the first translational member such that movement of one of said translational member and circular wheel causes movement of the other of said translational member and circular wheel, wherein a portion of the connecting means is pivotally connected directly onto the circular wheel at a first radial attachment point removed from the center of rotation of said circular wheel such that said first radial attachment point and said center of rotation define a first attachment radius; and

adjusting means for alternately (i) holding the first radial attachment point at a fixed location on the wheel, with respect to the center of rotation of said wheel, during rotational movement of said wheel, such that the first radial attachment point is